CMS Simulation (LHE) 13 TeV Fraction of events / 1 GeV  $pp \rightarrow h \rightarrow 2n_{1} \rightarrow 2n_{D} + 2~\gamma_{D} \rightarrow 2n_{D} + 4\mu$  $m_h = 125 \text{ GeV}, m_{n_1} = 10 \text{ GeV}, m_{n_2} = 1 \text{ GeV}$ 0.12  $m_{\gamma_0} = 0.25 \text{ GeV}, c\tau_{\gamma_0} = 2. \text{ mm}$ 1st dark photon (leading p<sub>\_</sub>) 0.1 2nd dark photon 0.08 0.06 0.04 0.02 10 20 30 40 50 60 80 90 100 0